A Project Report on

**FACE RECOGNITION ATTENDANCE SYSTEM**

Submitted in partial fulfilment of Requirements for the award of Degree in

**DEPARTMENT OF COMPUTER APPLICATIONS**

**Of**

**BENGALURU CITY UNIVERSITY**

**BENGALURU**

**Submitted by**

**Likith S Shetty (R2020675)**

**Jeshwanth A (R2020660)**



**ACHARYA INSTITUTE OF GRADUATE STUDIES**

(NAAC Reaccredited ‘A’ Grade and Affiliated to Bengaluru City University)

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**UNDER THE GUIDANCE OF**

**Prof. K. Ramakrishna Reddy**

**Assistant Professor**

**Department of Computer Applications**

**AIGS, Bengaluru**



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**2022-2023**

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**Department of Computer Applications**



U N D E R T A K I N G

**Jeshwanth A (R2020660), Likith S Shetty (R2020675)** studying in 5th Semester BCA at A.I.G.S hereby undertake that the project has been carried out by us as a part of fulfilment of the requirements of the award of the degree as prescribed by Bengaluru City University. The project was carried out at **Acharya Institute of Graduate Studies (A.I.G.S)** under the guidance of **Prof. K. Ramakrishna Reddy**. This project has not formed the basis for the award of any other degree of Bengaluru City University

**Signature of the Students**

1. **--------------------------------------**
2. **--------------------------------------**

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C E R T I F I C A T E

This is to certify that the project entitled

**FACE RECOGNITION ATTENDANCE SYSTEM**

Submitted in partial fulfilment of the requirement of the degree of Bachelor of Computer Application is a result of bonafide work carried out by

**Jeshwanth A (R2020660)**

**Likith S Shetty (R2020675)**

During the academic year 2022-2023

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**Jeshwanth A (R2020660)**

**Likith S Shetty (R2020675)**

**ABSTRACT**

**Title**: Face Recognition Attendance System.

Face recognition attendance system using Python is an innovative solution for tracking attendance in various settings, including schools, universities, and workplaces. The system uses computer vision techniques and machine learning algorithms to identify individuals based on their facial features. The system uses a camera to capture images of individuals' faces, which are processed by a computer program written in Python. The program uses image processing and machine learning techniques to recognize the individual's face and match it with a database of known faces. If a match is found, the attendance of that individual is recorded.

Python provides several libraries and tools for face recognition, including OpenCV, Dlib, and face\_recognition, making it easier to implement the image processing and machine learning algorithms required for face recognition. The system can significantly reduce the time and effort required for tracking attendance, making it an efficient and effective solution for attendance management. Additionally, the system can also help improve security in various settings by accurately identifying individuals and preventing impersonation.

Overall, a face recognition attendance system using Python can be a valuable tool for improving attendance management and enhancing security in various settings.

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